VS-NVR SERIES
Simple, optimized, and reliable video recording servers, including Smart NVRs that run multiple applications on a single NVR.

Do More, Relax More with Quantum Video Recording Servers

Quantum offers a portfolio of video recording servers optimized to meet the needs of a broad range of video surveillance environments, from a few cameras to hundreds of cameras that support any vendor’s Video Management System (VMS). Each product is designed to be simple to setup and manage, uses the latest hardware and software optimized for performance and reliability, and are affordable.

Quantum’s innovative Smart NVR significantly increases the power and flexibility over conventional video recording servers. Smart NVRs combine the Quantum Unified Surveillance Platform software with a purpose-built recording server to create a next-generation, integrated appliance for capturing and recording surveillance video. They are the first and only network video recorders that allow you to consolidate multiple applications - VMS, other physical security, or building management applications, regardless of vendor, on a single server.

The VS-NVR Series is available in a variety of form factors, including mini-tower, 1U rack mount, 2U rack mount, and an ultra-dense 4U 60-bay rack mount server for recording and retaining footage from hundreds of cameras for months or years.

Every product is backed by Quantum’s global support organization, providing installation and support 24x7x365 to tens of thousands of customers around the world.
Quantum Smart NVRs Lower Costs and Complexity

The VS-NVR Series include the Quantum Smart NVRs, powered by the Quantum Unified Surveillance Platform software, which are designed to help security integrators and organizations address the challenges of controlling costs, reducing complexity, keeping critical video and systems safe from unauthorized access and malware threats with a next-generation NVR that delivers more than conventional NVRs. The Unified Surveillance Platform software in the Smart NVRs enables the consolidation of multiple applications onto a single NVR, while at the same time being simple to set up, deploy, and manage.

SMART NVR KEY FEATURES AND BENEFITS

**Optimized Performance and Resource Utilization**

Maximum hardware resource utilization and performance is achieved through optimizing the firmware, storage, operating system, VMS operation, and network setup – in short everything for capturing and storing video most effectively. Plus, the software assigns priorities and thresholds to each application so that critical applications perform as needed.

**Simple Setup and Management**

Intuitive user interface combined with menu-driven setup, reduction of multiple steps into one-click executions, and streamlined application installation simplify deployment and save time.

**Built-in Data Center Grade Security**

Stay safe and relaxed knowing that there is a Four Layer Security Shield to prevent authorized user access and thwart malicious attacks on your critical video. This will help ensure you comply with your organization’s cybersecurity directives.

**Health and Resource Monitoring and Reporting**

An easy-to-use dashboard enables you to monitor, report, and alert on system health, compute, storage, and application resource utilization, as well as performance to verify that the NVR is recording and storing video, reducing the risk of any video loss.

Smart NVRs are available in 2U and an ultra-dense 4U 60-bay rack mount server with the compute and performance to run multiple applications, including recording and retaining footage from hundreds of cameras for months or years.
# Smart NVR Models | Technical Specifications

<table>
<thead>
<tr>
<th>Smart NVR Models¹</th>
<th>VS2208-SNVR</th>
<th>VS2118-SNVR</th>
<th>VS4260-SNVR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Smart NVR Use Case²</strong></td>
<td>Run multiple applications to reduce server count including recording for up to 245 cameras</td>
<td>Run multiple applications to reduce server count including recording for up to 540 cameras</td>
<td>Run multiple applications to reduce server count including recording for up to 1,075 cameras</td>
</tr>
<tr>
<td><strong>Specifications</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>2U Rack Mount</td>
<td>2U Rack Mount</td>
<td>4U Rack Mount</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Quantum Unified Surveillance Platform</td>
<td>Quantum Unified Surveillance Platform</td>
<td>Quantum Unified Surveillance Platform</td>
</tr>
<tr>
<td><strong>Storage Capacity (Raw)</strong></td>
<td>24 TB to 160 TB</td>
<td>24 TB to 360 TB</td>
<td>288 TB to 1,200 TB</td>
</tr>
<tr>
<td><strong>Base # HDDs</strong></td>
<td>3</td>
<td>3</td>
<td>36</td>
</tr>
<tr>
<td><strong>Max # HDDs</strong></td>
<td>8</td>
<td>18</td>
<td>60</td>
</tr>
<tr>
<td><strong>HDD Drive Capacities</strong></td>
<td>8 TB, 12 TB, 16 TB, 18 TB, 20 TB</td>
<td>8 TB, 12 TB, 16 TB, 18 TB, 20 TB</td>
<td>8 TB, 12 TB, 16 TB, 18 TB, 20 TB</td>
</tr>
<tr>
<td><strong>OS Drives</strong></td>
<td>2x 240 GB M.2 SSD</td>
<td>2x 240 GB M.2 SSD</td>
<td>2x 480 GB SSD</td>
</tr>
<tr>
<td><strong>Intel® Xeon® CPU</strong></td>
<td>1x or 2x Silver 4310</td>
<td>1x Silver 4216 2x Silver 4214R</td>
<td>2x Silver 4316</td>
</tr>
<tr>
<td><strong>RAM</strong></td>
<td>32 GB to 1 TB</td>
<td>32 GB to 1.5 TB</td>
<td>128 GB to 4 TB</td>
</tr>
<tr>
<td><strong>GPU</strong></td>
<td>–</td>
<td>NVIDIA A2 or A4500</td>
<td>–</td>
</tr>
<tr>
<td><strong>Networking</strong></td>
<td>4x 1 GbE 2x 10 GbE SFP+</td>
<td>4x 1 GbE 2x 10 GbE SFP+</td>
<td>2x 10 GbE BaseT 2x 10 GbE SFP+</td>
</tr>
<tr>
<td><strong>Display Connections</strong></td>
<td>1 front and 1 rear VGA ports</td>
<td>VGA D-Sub Connector port</td>
<td>VGA D-Sub Connector port</td>
</tr>
<tr>
<td><strong>Power Supplies</strong></td>
<td>2x 600 W Platinum 2x 800 W Platinum Redundant and Hot Plug</td>
<td>2x 1100W Platinum Redundant and Hot Plug</td>
<td>2x 2000W Redundant and Hot Plug</td>
</tr>
<tr>
<td><strong>Dimensions (W, D, H)</strong></td>
<td>17&quot; x 27&quot; x 3.41&quot;</td>
<td>17&quot; x 29&quot; x 3.41&quot;</td>
<td>17.6&quot; x 34.1&quot; x 7&quot;</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>54.67 lbs</td>
<td>73 lbs</td>
<td>170.5 lbs</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5 yrs. NBD</td>
<td>5 yrs. NBD</td>
<td>3 yrs. or 5 yrs. NBD</td>
</tr>
</tbody>
</table>

¹ Other configurations available upon request

² Supported number of cameras based on 2.41 Mbps stream, 1080P, 15 FPS
## NVR Models | Technical Specifications

<table>
<thead>
<tr>
<th>NVR Models¹</th>
<th>VST103-NVR</th>
<th>VS1003-NVR</th>
<th>VS1103-NVR</th>
<th>VS2208-NVR</th>
<th>VS2118-NVR</th>
<th>VS4260-NVR</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVR Use Case²</td>
<td>NVR for up to 90 cameras or general workstation</td>
<td>NVR for up to 90 cameras</td>
<td>NVR for up to 90 cameras</td>
<td>NVR for up to 245 cameras</td>
<td>NVR for up to 540 cameras</td>
<td>NVR for up to 1,075 cameras and longer retention of video</td>
</tr>
</tbody>
</table>

### Specifications

**Form Factor**
- Tower
- 1U Rack Mount
- 1U Rack Mount
- 2U Rack Mount
- 2U Rack Mount
- 4U Rack Mount

**Software**
- Out of Band Remote Management
- Health & Resource Monitoring
- Remote Web-based Access
- Health & Resource Monitoring
- Windows Server 2019 Std.

**Choice of Operating System**
- Windows 10 Pro or Windows Server 2019 Std. or Linux 20.04 Server
- Windows Server 2019 Std.

**Storage Capacity (Raw)**
- 8 TB to 60 TB
- 8 TB to 60 TB
- 8 TB to 60 TB
- 24 TB to 160 TB
- 24 TB to 360 TB
- 288 TB to 1,200 TB

**Base # HDDs**
- 1
- 1
- 1
- 3
- 3
- 3

**Max # HDDs**
- 3
- 3
- 3
- 8
- 18
- 60

**HDD Drive Capacities**
- 8 TB, 12 TB, 16 TB, 18 TB, 20 TB

**OS Drives**
- 2x 240 GB M.2 SSD
- 2x 240 GB M.2 SSD
- 2x 240 GB M.2 SSD
- 2x 240 GB M.2 SSD
- 2x 240 GB M.2 SSD
- 2x 480 GB SSD

**Intel® Xeon® CPU**
- E-2236
- E-2224
- E-2236
- 1x or 2x Silver 4310
- 1x Silver 4216
- 2x Silver 4214R
- 2x Silver 4316

**RAM**
- 16 GB to 128 GB
- 16 GB to 128 GB
- 16 GB to 128 GB
- 32 GB to 1 TB
- 32 GB to 1.5 TB
- 128 GB to 4 TB

**GPU**
- –
- –
- –
- –
- NVIDIA A2 or A4500
- –

**Networking**
- 2x 1 GbE
- 2x 1 GbE
- 2x 1 GbE
- 4x 1 GbE
- 4x 1 GbE
- 2x 10 GbE BaseT
- 2x 10 GbE SFP+

**Display Connections**
- VGA D-Sub Connector port
- VGA D-Sub Connector port
- VGA D-Sub Connector port
- 1 front and 1 rear VGA port
- VGA D-Sub Connector port
- VGA D-Sub Connector port

**Power Supplies**
- 2x 495 W Platinum Redundant, Hot Plug
- 1x 450 W Platinum Redundant, Hot Plug
- 2x 350 W Platinum Redundant, Hot Plug
- 2x 600 W Platinum Redundant, Hot Plug
- 2x 1100 W Platinum Redundant, Hot Plug
- 2x 2000 W Redundant, Hot Plug

**Dimensions (W, D, H)**
- 8.58” x 23.75” x 18.56”
- 17.1” x 23.98” x 1.68”
- 17.1” x 23.98” x 1.68”
- 17” x 27” x 3.41”
- 17” x 29” x 3.41”
- 176” x 341” x 7”

**Weight**
- 57.32 lbs
- 26.89 lbs
- 29.98 lbs
- 54.67 lbs
- 73 lbs
- 170.5 lbs

**Warranty**
- 5 yrs. NBD
- 5 yrs. NBD
- 5 yrs. NBD
- 5 yrs. NBD
- 5 yrs. NBD
- 3 yrs. or 5 yrs. NBD

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¹ Other configurations available upon request

² Supported number of cameras based on 2.41 Mbps stream, 1080P, 15 FPS